

**THREE-DIMENSIONAL TEXTILE COMPOSITE STRUCTURE AND**  
**MANUFACTURE AND USE THEREOF**  
**ABSTRACT OF THE DISCLOSURE**

5 A three-dimensional cellular textile composite structure with energy-absorbing capacities under multiple impacts is provided. The cellular textile composite structure includes a base, and at least one progressively collapsible projection extending from the base for absorbing energies under the multiple impacts. The projection includes a non-woven textile material  
10 supported in a thermoplastic matrix material such that the projection is capable of retaining energy-absorption capacity at least after the first impact of the multiple impacts.